State of Utah
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF AIR QUALITY

Michael O. Leavitt
Governor
Dianne R. Nielson, Ph.D.
Executive Director
Russell A. Roberts
Director

150 North 1950 West
P.O. Box 144820
Salt Lake City, Utah 84114-4820
(801) 536-4000 Voice
(801) 536-4099 Fax
(801) 536-4414 T.D.D.

January 25, 1996 DAQE-085-96

Paul Glauser
Jack B. Parson Company
P.O. Box 3429
Ogden, Utah 84409

Dear Mr. Glauser:

RE: APPROVAL ORDER FOR ADDITION OF CEMENT SILOS
DAVIS COUNTY, CDS-B, NON-ATTAINMENT

The attached document is an Approval Order for the above referenced project.

Future correspondence on this Approval Order should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. Please direct any technical questions you may have on this project to Mr. James Chapman. He may be reached at (801) 536-4471.

Sincerely,

Russell A. Roberts, Executive Secretary
Utah Air Quality Board

RAR:JC:aj

cc: Davis County Health Department
28 East State Street
PO Box 618
Farmington, UT 84025-618

Mike Owens
8ART-AP
EPA Region VIII
One Denver Place
999 18th Street - Suite 500
Denver, CO 80202-2466

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

APPROVAL ORDER FOR ADDITION OF CEMENT SILOS

Prepared By: James Chapman, Engineer
801-536-4000

APPROVAL NUMBER

DAQE-085-96

Date: January 25, 1996

Source

Jack B. Parson Company
Paul Glauser
801-731-5647

Russell A. Roberts
Executive Secretary
Utah Air Quality Board

Abstract

Jack B. Parson Companies operates a concrete batch plant in Davis County at 2585 East, South Weber Drive, South Weber, Utah and has submitted a Notice of Intent dated August 15, 1995, requesting the addition of two cement silos and an increase in production of concrete to their Approval Order (AO) BAQE-348-88, dated July 15, 1988. Jack B. Parson has also included a Notice of Intent dated
September 16, 1995, to operate a permanent crushing and washing operation to be located at the same South Weber location. This requires modification of the existing AO (BAQE-348-88) to update it to current standards. The modification will include the increased production rate, addition of the two cement silos, and the crushing and washing operation. Modeling will not be required for this source because the emissions fall below the guidelines established in the Division of Air Qualities,'The NOI Guide'. Title V will apply to this source because of NSPS equipment. Because of the increase in emissions and the increase in production rate a 30-day public comment period is required.

The above-referenced project has been evaluated and found to be consistent with the requirements of the Utah Air Conservation Rules (UACR) and the Utah Air Conservation Act. A 30-day public comment period was held and all comments received were evaluated. The conditions of this AO reflect any changes to the proposed conditions which resulted from the evaluation of the comments received. This air quality AO authorizes the project with the following conditions and failure to comply with any of the conditions may constitute a violation of this order:

General Conditions:

1. This AO applies to the following company:

   Corporate Office Location
   Jack B. Parson Companies
   5100 South Washington Blvd.
   PO Box 3429
   Ogden, Utah 84409
   Phone: (801) 479-9400
   Fax: (801) 731-2778

   The equipment listed below in this AO shall be operated at the following location:

   PLANT LOCATION:
   South Weber Pit (South)
   2585 East, South Weber Drive
   South Weber, Utah 84040
   (801) 479-5970
   Universal Transverse Mercator (UTM) Coordinate System:
   4,553,675 meters Northing; 423,380 meters Easting; Zone 12

2. Definitions of terms, abbreviations, and references used in this AO conform to those used in the UACR, Utah Administrative Codes (UAC), and Series 40 of the Code of

Federal Regulations (40 CFR). These definitions take precedence unless specifically defined otherwise herein.

3. Jack B. Parson Companies shall install and operate the washing and crushing operation with the concrete batch plant according to the terms and conditions of this AO as requested in the Notice of Intent dated August 15, 1995, and the Notice of Intent dated September 16, 1995, and additional information submitted to the Executive Secretary dated October 2, 1995, and October 3, 1995.

4. A copy of this AO shall be posted on site. The AO shall be available to the employees who operate the air emission producing equipment. These employees shall receive instruction as to their responsibilities in operating the equipment according to all of the relevant conditions listed below.

5. The approved installations shall consist of the following equipment or equivalent:

   A. Concrete batch plant, Rex Mobil 10 - SN 1346, ID# 30.016

   B. Pre-mix - Rex SN DPR 408, 10 yd capacity*

   C. Baghouse, Griffin Model D-80 TM*

   D. Baghouse, Griffin Model 36-KS*

   E. Baghouse, C&W Model CP-320 Pulse jet*

   F. Three silos, 75 ton capacity each, two cement, one fly ash

   G. One silo, 75 ton capacity, cement silo, controlled by Griffin baghouse model # 36-KS

   H. One cement silo, 1000 barrel capacity, equipped with C&W pulse jet baghouse

   I. Two (2) Grizzly Feeders, Syntron 32-062 (1977), Symons 32-002 (1954)*

   J. Two (2), Jaw Crusher, Pioneer 33-005 (pre 1983), CedarRapids 33-006 (1995)*

   K. Two (2), El-Jay, Rollercone Crushers, (1995) 32-025,(1993) 32-021*

   L. Two (2), El-Jay, 6 X 16 Triple Deck Screens,* (1995) 32-023,(1995) 32-024

   M. One (1), Pre-Screen, El-Jay (1993) 32-004*

   N. One (1), Wet Screen, 32-104

   * Equivalency shall be determined by the Executive Secretary.

6. This AO shall replace the AO dated July 15, 1988 (BAQE-348-88).

7. The Executive Secretary shall be notified in writing upon start-up of the installation, as an initial compliance inspection is required. Eighteen months from the date of this AO the Executive Secretary shall be notified in writing of the status of installation if installation is not completed. At that time the Executive Secretary shall require documentation of the continuous installation of the operation and may revoke the AO in accordance with R307-1-3.1.5, UAC. If installation is complete and operation has commenced a notice is not required.

Limitations and Tests Procedures

8. Visible emissions from the following emission points shall not exceed the following values:

   A. All crushers - 15% opacity
   B. All screens - 10% opacity
   C. All conveyor transfer points - 10% opacity
   D. All diesel engines - 20% opacity
   E. Conveyor drop points - 20% opacity
   F. All Baghouses - 10% opacity
   G. All Storage Piles - 10% opacity
   H. All other points - 20% opacity

   Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

9. Visible emissions from any stationary point or fugitive emission source associated with the source or with the control facilities shall not exceed 20% opacity. Opacity observations of emissions from stationary sources shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9.

10. The following production limits shall not be exceeded without prior approval in accordance with R307-1-3.1, UAC:

    Concrete Batching Plant

    A. 175,000 cu-yd of concrete per rolling 12-month period

    B. 150 cu-yd of concrete per hour

    C. 16 hours per day

    D. 2400 hours per rolling 12-month period

Sand and Gravel Pit

A. 1,500,000 tons per rolling 12-month period of washed & crushed aggregate products

B. 500 tons per hour of washed & crushed aggregate

C. 16 hours per day

D. 3000 hours per rolling 12-month period

Compliance with the annual limitations shall be determined on a rolling 12-month total. The owner/operator shall calculate a new 12-month total based on the first day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Records of production, including rolling 12-month totals shall be made available to the Executive Secretary or his representative upon request and shall include a period of two years ending with the date of the request. Production shall be determined by vendor receipts. The records shall be kept on a daily basis. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log.

Roads and Fugitive Dust

11. All unpaved roads and other unpaved operational areas that are used by mobile equipment shall be water sprayed and chemically treated to control fugitive dust. The application of water and chemical treatment using a magnesium chloride solution, or equivalent, shall be used. Chemical treatment shall take place two (2) times a year and watering shall be initiated daily dependant upon observed dust generation. The opacity shall not exceed 20% during all times the areas are in use or unless it is below freezing. If chemical treatment is to be used, the plan must be approved by the Executive Secretary. Records of water treatment shall be kept for all periods when the plant is in operation. The records shall include the following items:

    A. Date
    B. Number of treatments made, dilution ratio, and quantity
    C. Rainfall received, if any, and approximate amount
    D. Time of day treatments were made

    Records of treatment shall be made available to the Executive Secretary upon request and shall include a period of two years ending with the date of the request.

12. The haul road limitations shall be:

A. 0.4 miles in length
B. 15 miles per hour speed limit

These limitations shall not be exceeded without prior approval in accordance with R307-1-3.1, UAC. The haul road speed shall be posted.

13. Visible fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall not exceed 20% opacity. Visible emissions determinations for traffic sources shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Six points, distributed along the length of the haul road or in the operational area, shall be chosen by the Executive Secretary or his representative. An opacity reading shall be made at each point when a vehicle passes the selected points. Opacity readings shall be made ½ vehicle length or greater behind the vehicle and at approximately ½ the height of the vehicle or greater. The accumulated six readings shall be averaged for the compliance value.

14. Water sprays or chemical dust suppression sprays shall be installed at the following points to control fugitive emissions:

A. All crushers
B. All screens
C. All conveyor transfer points

The sprays shall operate whenever dry conditions warrant, in order to meet the specific opacity requirements.

15. The moisture content of the material that passes a number 40 sieve shall be maintained at a minimum of 4.0% by weight. The moisture content shall be tested if directed by the Executive Secretary using the appropriate American Society of Testing and Methods (ASTM) method.

16. The storage piles shall be watered to minimize generation of fugitive dusts as dry conditions warrant, in order to meet the 10% opacity limitation.

Fuels

17. The sulfur content of any diesel fuel burned shall not exceed 0.05 percent by weight. Sulfur content shall be decided by ASTM Method D-4294-89, or approved equivalent. The sulfur content shall be tested if directed by the Executive Secretary.

Federal Limitations and Requirements

18. In addition to the requirements of this AO, all provisions of 40 CFR 60, New Source Performance Standards (NSPS)[1] Subparts A and OOO apply to the following equipment:

One (1) 1995, CedarRapids, Jaw Crusher, 33-006
One (1) 1995, El-Jay, Roller Crusher, 32-025
One (1) 1993, El-Jay, Roller Crusher, 32-021
One (1) 1995, El-Jay, 6X 16 Triple Deck Screen, 32-023
One (1) 1995, El-Jay, 6X 16 Triple Deck Screen, 32-024
One (1) 1993, El-Jay, Pre-screen, 32-004

To be in compliance, this facility must operate in accordance with the most current version of 40 CFR 60.

19. For sources that are subject to NSPS, visible emission observations that are performed during the initial compliance inspection shall consist of 30 observations of six minutes each in accordance with 40 CFR 60.11(b) and 40 CFR 60, Appendix A, Method 9. It is the responsibility of the owner/operator of the source to supply these observations to the Executive Secretary. A certified observer must be used for these observations. Emission points that are subject to the initial observations are:

A. All crushers
B. All screens
C. All conveyor transfer points

Records & Miscellaneous

20. All installations and facilities authorized by this AO shall be adequately and properly maintained. All pollution control vendor recommended equipment shall be installed, maintained, and operated. Instructions from the vendor or established maintenance practices that maximize pollution control shall be used. All necessary equipment control and operating devices, such as pressure gauges, amp meters, volt meters, flow rate indicators, temperature gauges, CEMS, etc., shall be installed and operated properly and easily accessible to compliance inspectors. A copy of all manufacturers' operating instructions for pollution control equipment and pollution emitting equipment shall be kept on site. These instructions shall be available to all employees who operate the equipment and shall be made available to compliance inspectors upon their request.

21. The owner/operator shall comply with R307-1-3.5, UAC. This rule addresses emission inventory reporting requirements.

22. The owner/operator shall comply with R307-1-4.7, UAC. This rule addresses unavoidable breakdown reporting requirements. The owner/operator shall calculate/estimate the excess emissions whenever a breakdown occurs. All excess

[1] NSPS = New Source Performance Standards.

emissions shall immediately be reported to the Executive Secretary. The total of excess emissions shall be reported to the Executive Secretary as directed for each calendar year.

23. All records referenced in this AO or in applicable NSPS or NESHAP, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or his representative upon request and shall include a period of two years ending with the date of the request. All records shall be kept for a period of two years. Examples of records to be kept at this source shall include the following as applicable:

A.	Production rate	(Condition number 10)
B.	Maintenance records	(Condition number 20)
C.	Hours of operation	(Condition number 10)
D.	Fugitive emission control	(Condition number 11)

Any future modifications to the equipment approved by this order must also be approved in accordance with R307-1-3.1.1, UAC.

This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including the UACR.

Annual emissions for the South Weber Facility are currently calculated at the following values:

	Pollutant	Tons/yr
A.	TSP	9.56
B.	PM_{10}	4.62
C.	SO_2	1.91
D.	NO_x	18.17
E.	CO	7.10
F.	VOC	1.33

These calculations are for the purposes of determining the applicability of Prevention of Significant Deterioration and Nonattainment area major source requirements of the UACR. They are not to be used for purposes of determining compliance.

In accordance with the requirements of Title V of the 1990 Clean Air Act, the following pollutants may be subject to an operating permit fee. Emissions of the following pollutants from all sources, including pre-November 19, 1969 sources, may be subject to the operating permit fee. Both the fees rate and the class of pollutants are subject to change by State, the federal agencies, or both.

	Pollutant	Tons/yr
A.	TSP	9.56
B.	SO_2	1.91
C.	NO_x	18.17
D.	VOC	1.33

Approved By:

Russell A. Roberts, Executive Secretary
Utah Air Quality Board